

# C HR-J6009UM

## WHS Hi-Fi SQPB

## **INSTRUCTIONS**

LPT0702-001A
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#### Dear Customer,

Thank you for purchasing the JVC VHS video cassette recorder. Before use, please read the safety information and precautions to ensure safe use of your new VCR.

#### **CAUTIONS**

WARNING: DANGEROUS VOLTAGE INSIDE

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO

NOT EXPOSE THIS UNIT TO RAIN OR

MOISTURE.

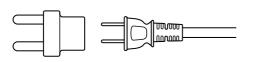
The POWER  $\circlearrowleft$ /I button does not completely shut off mains power from the unit, but switches operating current on and off. " $\circlearrowleft$ " shows electrical power standby and "I" shows ON.

This unit is produced to comply with Standard IEC 60065.

#### POWER SYSTEM:

This set operates on voltage of AC 110 – 220V  $\sim$  , 50/60 Hz with automatic switching.

Use the conversion plug (provided) depending on the type of your AC WALL outlet.



The rating plate and safety caution are on the rear of the unit.

#### IMPORTANT:

It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.

#### CAUTION

- When you are not using the VCR for a long period of time, it is recommended that you disconnect the power cord from the AC outlet
- Dangerous voltage inside. Refer internal servicing to qualified service personnel. To prevent electric shock or fire hazard, remove the power cord from the AC outlet prior to connecting or disconnecting any signal lead or aerial.
- Changes or modifications not approved by JVC could void user's authority to operate the equipment.

## WIS SQPB HIEL

- Cassettes marked "VHS" (or "S-VHS") can be used with this video cassette recorder. However, S-VHS recording is not possible with this model
- This model is equipped with SQPB (S-VHS QUASI PLAYBACK) that makes it possible to play back S-VHS recordings with regular VHS resolution.
- HQ VHS is compatible with existing VHS equipment.

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When the equipment is installed in a cabinet or a shelf, make sure that it has sufficient space on all sides to allow for ventilation (10 cm or more on both sides, on top and at the rear).

When discarding batteries, environmental problems must be considered and the local rules or laws governing the disposal of these batteries must be followed strictly.

#### Failure to heed the following precautions may result in damage to the VCR, Remote or video cassette.

- 1. DO NOT place the VCR ..
  - ... in an environment prone to extreme temperatures or humidity.
  - ... in direct sunlight.
  - ... in a dusty environment.
  - ... in an environment where strong magnetic fields are generated.
- on a surface that is unstable or subject to vibration.
- 2. DO NOT block the VCR's ventilation openings or holes. (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- 3. DO NOT place heavy objects on the VCR or Remote.4. DO NOT place anything which might spill on top of the VCR or Remote.
  - (If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)
- 5. DO NOT expose the apparatus to dripping or splashing.6. DO NOT use this equipment in a bathroom or places with water. Also DO NOT place any containers filled with water or liquids (such as cosmetics or medicines, flower vases, potted plants, cups, etc.) on top of this unit.
- 7. DO NOT place any naked flame sources, such as lighted candles, on the apparatus.
- 8. AVOID violent shocks to the VCR during transport.

#### **MOISTURE CONDENSATION**

Moisture in the air will condense on the VCR when you move it from a cold place to a warm place, or under extremely humid conditions—just as water droplets form on the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions where condensation may occur, keep the VCR's power turned on for a few hours to let the moisture dry.

#### How to use the Remote

Before use, insert two AAA size batteries into the Remote with the polarity (⊕ and ⊝) matched correctly as indicated on the battery compartment or on the lid.

- Point the Remote toward the remote sensor on the target component.
- The maximum operating distance of the remote control is about 5 m.

If the Remote does not work properly, remove its batteries, wait for a few seconds, replace the batteries and then try again.

#### Video heads cleaning

The heads get dirty in the following cases:

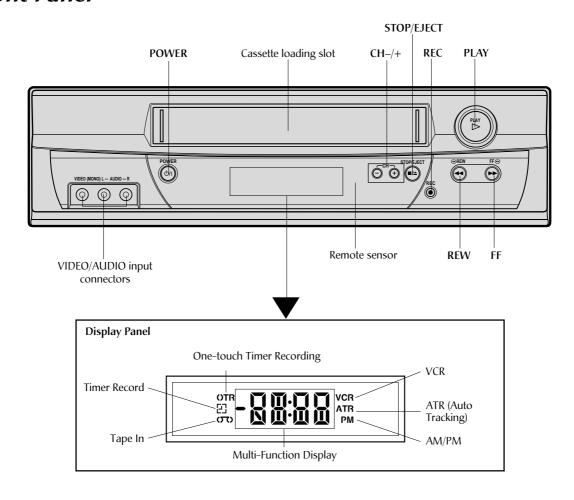
- in an environment prone to extreme temperature or humidity.
- in a dusty environment
- flaw, dirt or mold on video tapes
- continuous usage for a long time

Use a dry cleaning cassette – TCL-2 – when:

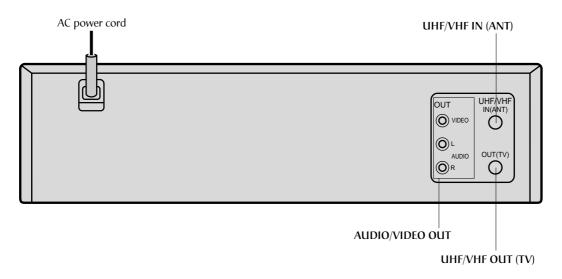
- Rough, poor picture appears while a tape is played back.
- The picture is unclear or no picture appears.

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# **Buttons, Connectors and Indicators**Front Panel

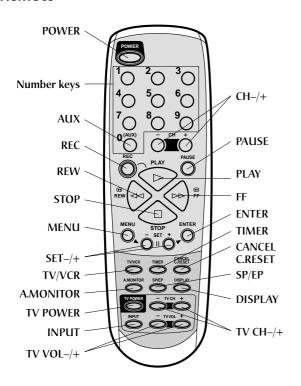


# **Rear Panel**



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#### Remote



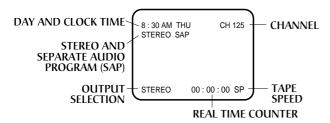
This Remote transmit A code signals only; it is not applicable to B code signals.

#### On-screen display

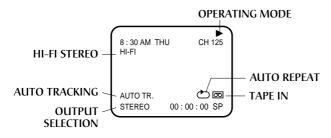
If you press **DISPLAY** on the Remote, you can see the current VCR status on the TV screen. Press **DISPLAY** again to exit on-screen display.

The indications are not recorded even if the VCR is in the recording mode.

#### WHILE WATCHING TV



#### WHILE OPERATING A TAPE



# Connections and VCR channel Setting

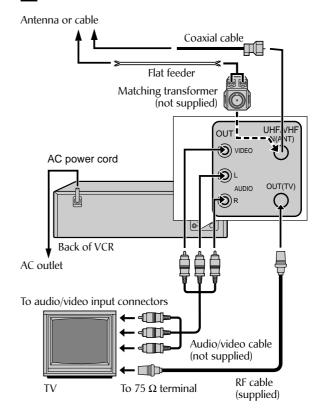
#### 1 Check contents

Make sure the package contains all of the accessories listed in "Specifications".

#### 2 Situate VCR

Place the VCR on a stable, horizontal surface.

#### **3** Connect VCR to TV



#### RF Connection

- 1 Disconnect the TV antenna from the TV.
- 2 Connect the TV antenna cable to the UHF/VHF IN terminal on the rear of the VCR.
- 3 Connect the supplied RF cable between the UHF/VHF OUT terminal on the rear of the VCR and the TV's antenna input terminal.

#### **AV Connection**

(improves picture quality during tape playback.)
If your TV is equipped with audio/video input connectors

- ① Connect the antenna, VCR and TV as shown in the illustration.
- Connect an audio/video cable between the AUDIO/ VIDEO OUT connectors on the rear of the VCR and the audio/video input connectors on the TV.
- Even if you are using audio/video cables to connect your VCR to your TV, you must also connect it using the RF cable. This will ensure that you can record one show while watching another.

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#### - Connections and VCR channel Setting -

#### 4 Set VCR channel

To view playback of a recorded tape, or to watch a program selected by the VCR's channel selector, the TV must be set to channel 3 or 4 (video channel) when a TV is connected with the 75 ohm coaxial cable only.

1 Press and hold **POWER** on the unit for 3 seconds in standby mode. The video channel will start to flash in the display.

Press CH –/+ to set the video channel 3 or 4.

- 2 Press ENTER to set the selected video channel in step 1 into the memory.
- 3 Turn ON the TV and set to CH 3 or 4 to correspond with the channel selected in step 1.
- 4 Turn on the VCR and select any channel to receive a TV station in your area. The channel number will appear on the screen and display for about 4 seconds.

# **Initial Settings**

#### **Language Setting**

The default setting is "ESPAÑOL".

1 Access Menu screen, then Language screen

Press MENU on the Remote. Press SET -/+ to select "LANGUAGE", then press ENTER.

### 2 Select language

This VCR offers you the language choice to view menus and some messages — in English, Spanish or

French. Press SET -/+ to select your desired language, then press ENTER.

Press MENU twice to return to normal screen.





#### **Clock Setting**

#### **Preparations**

CH 125

You must set the date and time for timer recording.

1 Access Menu screen, then Clock Set screen

Press MENU on the Remote. Press SET –/+ to select "CLOCK SET", then press ENTER.



**2** Set month, day, year and time Press SET –/+ until the desired month appears, then press ENTER. Set the day, year and time in the same way.



3 Start clock

Press MENU twice and normal screen appears.



To make corrections any time during the process Press CANCEL repeatedly until the item you want to change blinks, then press SET -/+.

#### NOTE:

After a power failure or disconnection of the power over 18 hours, the timer settings will be lost. In this case, reset the present time.

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#### **Tuner Setting**

This VCR is equipped with a channel memory feature which allows channels to skip up or down to the next channel set into memory, skipping over unwanted channels. Before selecting channels, they must be programmed into the VCR's memory. In addition to normal VHF and UHF channels, this VCR can receive up to 113 Cable TV channels. To use this VCR with an antenna, set the TV/CATV menu option to the TV mode. When shipped from the factory, this menu option is in the CATV mode.

#### - TV/CATV Selection

Access Menu screen, then CH Set Up screen

Press MENU on the Remote. Press SET –/+ to select "CH SET UP", then press ENTER.



MENU

#### 2 Perform TV/CATV Selection

Press **SET** –/+ to select "TV/CATV", then press **ENTER** to select the TV or CATV mode. The arrow indicates the selected mode.



TV - VHF/UHF channels CATV - CABLE TV channels

Press MENU twice to return to normal screen.

### Setting channels automatically

#### Auto Channel Memory

The VCR can receive a maximum of 181 channels by presetting the channels into memory.

# Access Menu screen, then CH Set Up screen

Press MENU on the Remote. Press SET –/+ to select "CH SET UP", then press ENTER.

**2** Perform Auto Channel Memory Press SET –/+ to select "AUTO CH MEMORY", then press ENTER.

# **3** Complete Auto Channel Memory

The auto tuning will start. The channel display will count up and when finished, the screen returns to normal.





CH 001

# Setting channels manually – Manual Channel Set

You can add the channels you want or delete the channels you do not want manually.

1 Access Menu screen, then CH Set Up screen

Press MENU on the Remote. Press SET -/+ to select "CH SET UP", then press ENTER.

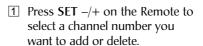


2 Access ADD/DELETE Mode

Press **SET** -/+ to select "ADD/DELETE", then press **ENTER**.



3 Add or Delete desired channels





2 To add channels

Press ENTER until "ADD" appears on the screen to set to add the unmemorized channel.

#### To delete channels

Press ENTER until "DELETE" appears on the screen to set to delete the channel from memory.

Repeat 1 to 2 to add or delete other channel.

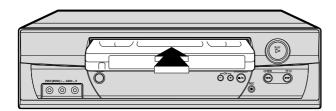
3 Press MENU three times to return to normal screen.

**NOTE:** You can't select "CH SET UP" if you set the channel to "L".

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# Playback

# Basic Playback Load a cassette



Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is pointing towards the VCR.

- Do not apply too much pressure when inserting.
- The VCR turns on, and the counter on the on-screen display is reset, automatically.
- If the cassette's record safety tab has been removed, playback begins automatically.



Press PLAY (>>).



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#### **During playback**

#### Stop playback

Press **STOP** ( $\square$ ) on the Remote.

OR Press STOP/EJECT (■/ ♠) on the VCR.



#### Pause playback and view still picture

#### Press PAUSE.

• Press PLAY (>) to resume normal playback.

#### Pause and Frame-by-Frame playback

Press PAUSE to pause, then press PAUSE repeatedly.
Press PLAY (▷) to resume normal playback.

#### Slow-motion

Press **PLAY** (>>) on the Remote.

OR Press Play (►) on the VCR.

- Playback will proceed at 1/10 th of the normal speed.
- Press PLAY (▷) to resume normal playback.

#### NOTE

During slow motion picture, some noise might appear on the TV screen. Use the SET-/+ on the Remote to eliminate the noise.

#### Speed search

Press REW ( $\triangleleft \triangleleft$ ) or FF ( $\triangleright \triangleright$ ) on the Remote.

• Press PLAY (▷) to resume normal playback.

OR Press REW (◀◀ ) or FF (▶►) on the VCR.

#### Variable speed search

Press REW ( $\triangleleft \triangleleft$ ) or FF ( $\triangleright \triangleright$ ) repeatedly on the Remote.

- Press PLAY (▷) to resume normal playback.
- Each time you press REW (</br>
  (
  ✓
  ) or FF (
  ✓
  ) the playback speed changes.

OR	Press REW (◀◀) or FI
	(►►) repeatedly on
	the VCR.

TAPE SPEED	PICTURE SEARCH SPEED	
	PRESS ONCE	PRESS TWICE
SP	3X	5X
EP	9X	15X

#### When the tape is not running

#### Rewind/fast-forward

Press REW ( $\triangleleft \triangleleft$ ) or FF ( $\triangleright \triangleright$ ) on the Remote.



OR Press REW (◄◄) or FF (►►) on the VCR.



#### Eject the tape

Press STOP/EJECT ( $\blacksquare$ / $\triangleq$ ) on the VCR.

 You can also eject the cassette when the VCR is turned off.



#### Turn off the VCR

Press **POWER** on the Remote.

OR Press POWER ( $\circlearrowleft$ /I) on the VCR.

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#### Playback Features

# Adjusting tracking condition – Tracking Adjustment

#### Automatic tracking adjustment

Whenever you insert a tape and start playback, automatic tracking starts working and continuously analyzes the signal to enable optimum picture quality during playback.

#### Manual tracking adjustment

If automatic tracking cannot eliminate noises well during playback, press SET –/+ on the Remote to eliminate the noises. Press it briefly for a fine adjustment, or press and hold for a coarse adjustment.

• Press SP/EP on the Remote to reactivate automatic tracking.

# Playing back tape repeatedly – Auto Repeat Play

- 1 Access Menu screen
  Press MENU on the Remote.
  - Press **MENU** on the Remote. Press **SET** -/+ to select "AUTO REPEAT".
- Select ON/OFF
  Press ENTER to select "ON" or
  "OFF".
  Press MENU to return to normal

screen.

Start Auto Repeat Play Press PLAY. The tape will play over and over until the repeat mode is canceled.





# Recording

It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.

Accidental erasure prevention

To prevent accidental recording on a recorded cassette, remove its record safety tab.

To record on it later, cover the hole

with adhesive tape.

# Record safety tab

#### **Basic Recording**

#### 1 Load a cassette

Make sure the record safety tab is intact. If not, cover the hole with adhesive tape before inserting the cassette

 The VCR turns on, and the counter is reset, automatically.

## **2** Select recording channel

Press CH-/+ or the Number keys on the Remote [CH-/+ on the VCR].

only using the RF connection, press
TV/VCR on the Remote so that the
VCR mode indicator lights on the display panel, to view the program to be recorded.

**3** Set tape speed Press SP/EP.

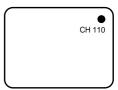
00:00:00 SP

 $\boldsymbol{\sigma}$ 

CH 001

4 Start recording
On the VCR, press REC. Or on the

On the VCR, press REC. Or on the Remote, while holding REC, press PLAY (▷).

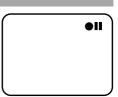


|--|

#### Pause recording

#### Press PAUSE.

- Press PAUSE to resume recording.
- You can select channel in the recording pause mode.



#### Stop recording

Press **STOP** ( $\square$ ) on the Remote.

OR Press STOP/EJECT (■/♠) on the VCR.



### **Recording Features**

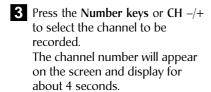
Specifying recording length
- One Touch Timer Recording (OTR)

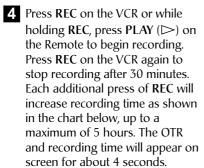
The One-touch Timer Recording feature provides a simple and convenient way to make a timed recording.

**EXAMPLE**: One-touch Timer Recording for 30 minutes.

When a TV is connected with an audio/video cable, turn the TV on and select the video input mode on the TV.

- 1 Load a cassette tape with the erase prevention tab intact. The clock display will change in the counter display.
- Press SP/EP to select the desired tape speed SP or EP.
  The counter and SP or EP will appear on the screen for about 4 seconds.





NOTES: • Press REC to increase the time needed for recording (See the chart ).

 To cancel OTR, press STOP (□) or turn off the power.

Press	Recording time
once	NORMAL REC
twice	0:30
3 times	1:00
4 times	1:30
5 times	2:00
6 times	3:00
7 times	4:00
8 times	5:00
9 times	NORMAL REC

# Watching one program while recording another During recording...

- If you connect the TV and the VCR only using the RF connection to view pictures from the VCR, press TV/VCR on the Remote so that TV/VCR indicator goes off from the display panel. (The TV broadcast being recorded disappears.)
- If you are using the AV connection to view pictures from the VCR, change the TV's input mode from AV to TV.
   Then, select the channel you want to watch, on the TV.

# **Timer Recording**

Timer recording can be programmed on-screen with the remote control. The built-in timer allows automatic unattended recording of up to 8 programs within 1 month.

#### NOTES:

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00:00:00 SP

CH 125

OTR 0:30

CH 125

- After timer recording is completed, the VCR turns off automatically.
- You can program the timer recording while a regular recording is in progress; the menu screens will not be recorded.
- The timer recording will start at 20 seconds before the time you predetermined.

EXAMPLE: Program a timer recording for the 26th day, channel 125 (CATV), 11:00 – 11:30 PM on timer program number 1 (Tape speed: EP).

When a TV is connected with an audio/video cable, turn the TV and this VCR on and select the video input mode on the TV

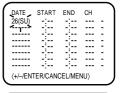
- Press MENU on the Remote. Check the "TIMER REC SET" option is selected, then press ENTER.
- Press SET –/+ to select one of the program lines, then press ENTER.
- 3 Press SET -/+ to select the date, then press ENTER.
- 4 Set the start time, end time, channel and tape speed as in step 3.

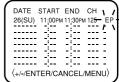
NOTE: To record from external source, press SET -/+ and set the channel to "L". "L" will appear next to CH 125 (or 69).

- **5** To enter other programs, repeat step 2 through 4. Or, press MENU twice to return to the normal screen.
- Press TIMER on the Remote.
  The power will go off, the
  TIMER REC indicator (□) will
  light and the VCR stands by
  for recording.

MENU	•
<b>∖</b> ICLOCK SET	
<b>I</b> TIMER REC SE	
<b>/</b> ■AUTO REPEAT	ON ▶OFF
■ CH SET UP	
■ SAP	ON ▶OFF
■ LANGUAGE/IDI	
■ NO NOISE BAC	
	►ON OFF
(+/-/ENTER/MEN	U)

DANE.	<b>S</b> TA <b>R</b> T	END/	CN >
11-	1-+	1-1-1	11
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DATE STA	ART EI	ND CH :30pw/125 ÆP
F		1-1-7-7
	ΞΞ	=======================================
\(\( \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	: R/CAN	: CEL/MENU>

To use the VCR while it is in timer recording standby mode Press TIMER. After you use the VCR, press TIMER again to put the VCR into timer recording standby mode.

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#### TO CORRECT THE SETTINGS

When setting the Timer Recording, press ENTER until the desired setting blinks, then re-enter the setting using SET -/+. When finished, press ENTER.

NOTES: • The VCR cannot be used while the TIMER REC indicator (□) is lit.

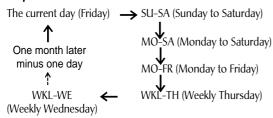
- After a power failure or disconnection of the power plug over 18 hours, all programmed recording settings must be reset upon resumption of power. In this case, reset the clock and reprogram any timer recordings.
- Press CANCEL to move cursor backward for correction.

#### TO SET DAILY/WEEKLY TIMER

When setting the date in step 3 in the Setting the Timer Recording section on the previous page, press **SET** – repeatedly.

The setting changes as follows:

#### **Example**



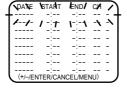
#### TO CONFIRM THE SETTINGS

Press SET -/+ to select the "TIMER REC SET" option in the MENU. Then press ENTER to display the timer program list. Press MENU twice to return to the normal screen.



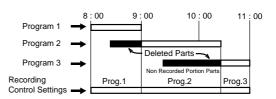
#### TO CANCEL A PROGRAM

Press the SET -/+ to select the "TIMER REC SET" option in the MENU. Then press SET -/+ to select the unnecessary program, and press CANCEL to cancel the program.



#### IF THE PROGRAM OVERLAPS ANOTHER

NOTE: Do not overlap programs as portions of the conflicting programs will be lost. The first recording time has priority over the next recording time as shown in the diagram.



NOTES: • The everyday/every week recording can be made continuously until the recording is canceled or the tape reaches the end.

 During timer recording, the automatic rewinding mechanism does not function.

## Other Functions

# ■ Changing display information

Each time you press DISPLAY, the display panel shows the time counter and the clock time alternatively.



When DISPLAY on the Remote is pressed, time counter will appear on the TV screen. To reset the time counter, press C. RESET on the Remote.

#### ■ BLUE BACK — ON/OFF

When this function is set to "ON", the TV screen becomes all blue in the following case:

When receiving a channel not in use.

- Press MENU on the remote. Press SET -/+ to select "NO NOISE BACKGROUND".
- Press ENTER to select "ON".
- **3** Press MENU to return to normal screen.

#### STEREO RECORDING AND PLAYBACK

#### **RECORDING STEREO BROADCASTS**

The VHS Hi-Fi audio system permits high fidelity recording of MTS STEREO TV broadcasts.

When a MTS STEREO broadcast is received, the STEREO will appear on the screen and the program can be viewed or recorded in stereo. The Hi-Fi STEREO recording procedure is the same as for normal



NOTE: When using a CATV system, stereo TV programs may be transmitted over a mono cable channel. In this case the word "STEREO" will not appear and the sound will be in mono.

#### **OUTPUT SELECTION**

recordings.

When viewing an MTS STEREO TV program, or playing a prerecorded VHS Hi-Fi STEREO videotape, press A.MONITOR to select how the audio will be heard through the speakers. Normally set to the Hi-Fi STEREO position, this button can be set to the MONO position if the stereo broadcast or videotape audio is of poor quality. The "R" and "L" positions allow the audio from the Right or Left Hi-Fi channel to be heard over both TV speakers. This button has no effect when viewing a MONO videotape or TV program. Each time when you press the button, OUTPUT SELECTION display appears on the screen for several seconds. Refer to the chart below.

OUTPUT SELECTION	SOUND HEARD ON BOTH SPEAKERS
STEREO L ch R ch	STEREO LEFT CHANNEL AUDIO RIGHT CHANNEL AUDIO
MONO	MONO

**NOTES:** • When playing back a tape that is not recorded in Hi-Fi stereo mode, the audio will automatically be

> • When listening to a VHS Hi-Fi video tape or MTS broadcast through the VHF/UHF jack (Audio/ Video cord not connected), the sound will be monaural.

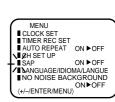
#### ■ SEPARATE AUDIO PROGRAM (SAP)

Your VCR is fitted with an SAP broadcast system which enables you to switch to a SEPARATE AUDÍO PROGRAM when viewing a selected channel.

This function applies only when the program is broadcast in multi-languages through the SAP broadcast system.

When a TV is connected with an audio/video cable, turn the TV and this VCR on, and select the video input mode the TV.

- 1 Press MENU on the Remote. Press SET -/+ to select "SAP" option.
- **2** Press ENTER to select "ON" position.
- **3** Press MENU to return to normal screen.

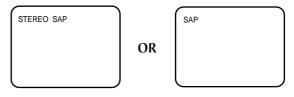




#### ■ LISTENING TO SAP

When the VCR is turned on or a channel selection is made, make certain "SAP" appears on the screen.

This means that the "Separate Audio Program" broadcasting is available.



#### JVC TV Remote Control

This Remote can control some functions (TV POWER, INPUT, TV CH -/+ and TV VOL -/+) of a remote controllable JVC TV without setting.

#### NOTE:

- It's not possible to operate a unit not equipped with a remote sensor.
- This Remote can control a JVC TV only.

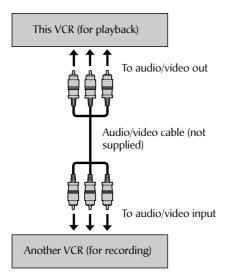
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# **Editing**

You can use your VCR as the playback or recording VCR. You can use a camcorder as the playback VCR and your VCR as the recording VCR. Refer also to the other components' instruction manuals for connection and its operations.

#### **1** Make connections

Example: When using this VCR as the playback VCR



 When using this VCR as the recording VCR, connect this VCR's audio/video input connectors to the audio/video output connectors on the other VCR. If the playback VCR is monaural, connect the audio output connector on the playback VCR to the left audio input connector on this VCR.

## **2** Load cassettes

Insert the playback cassette into the playback VCR and the cassette to be recorded on into the recording VCR.

# **3** Select input mode on recording VCR

Select the correct external input on the recording VCR. On this VCR (when using this VCR as the recording VCR); Select "L" — when connecting the other VCR to the audio/video input connectors on the front panel.

Press O (AUX) or CH—/+ on the Remote [CH—/+ on the VCR].

## 4 Start playback

Press PLAY (►) on the playback VCR.

## **5** Start recording

Press REC on the recording VCR.

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# **Before Requesting Service**Make sure by first checking the following points.

SYMPTOM	CAUSE	POSSIBLE SOLUTION
POWER		
No power.	The AC power cord is not connected.	Connect the AC power cord to the AC outlet.
Although the power is on, it does not operate.	Cassette is not inserted.	Insert a video cassette.
TV BROADCAST RECEPTION		
	Antenna connection is not correct.	Connect it correctly.
	Antenna cable is disconnected.	Reconnect the antenna cable.
A TV program that is selected by	The video channel is not in the correct position.	Set it to CH 3 or 4.
the VCR does not appear on the screen.	The TV is not set to the video channel 3 or 4.	Set the TV channel selector to the 3 or 4 position.
	The TV/VCR selector is set at TV mode (The TV/VCR indicator is not lit).	Press the TV/VCR selector button (The TV/VCR indicator will light).
	INPUT is set to the LINE mode. The TV/CATV menu option setting.	Press the Number key or CH –/+ button to select your desired TV program.
RECORDING		
TV recording does not work.	The erase prevention tab of the video cassette is broken off.	Place a piece of vinyl tape over the gap.
TV recording does not work.	INPUT is set to the LINE mode.	Press the Number key or CH –/+ button to select your desired TV program.
	The time is not set correctly.	Reset the present time.
Timer recording does not work.	The recording start/end time is not set correctly.	Set the start/end time.
9	The TIMER button has not been pressed (The TIMER REC symbol □ is not lit on the display).	Press the TIMER button (The TIMER REC symbol □ is lit on the display).
PLAYBACK		
No picture on screen when playing back a recorded tape.	The TV is not set to the video channel 3 or 4.	Set to the video channel 3 or 4 or adjust the fine tuning button on your TV set.
N I	Tracking adjustment beyond range of automatic tracking circuit.	Adjust tracking manually using the SET – or + buttons on the remote control.
Noise bars on screen.	Video heads are dirty.	Have the video heads cleaned.
	The tape is worn or damaged.	Try another tape.
REMOTE CONTROL		
	It is not aimed at the remote sensor.	Aim it at the remote sensor.
	Distance too far or too much light in the room.	Operate within 15 feet (5 meters) reduce the light in the room.
Remote control does not work.	There is an obstacle in the path of the beam.	Clear the path of the beam.
	The batteries are weak.	Replace the batteries.
	The +, – polarity of the batteries are not inserted correctly.	Insert correctly.
TV programs cannot be seen using the TV selector.	The TV/VCR function is in the VCR mode.	Set to TV, or turn off the VCR power button.

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# **Specifications**

**GENERAL** 

AC 110 V-220 V~, 50 Hz/60 Hz Power requirement

Power consumption

Power on 10 W 2.0 W Power off

Temperature

5°C to 40°C (41°F to 104°F) Operating -20°C to 60°C (-4°F to 140°F) Storage

Operating position Horizontal only

360 mm x 95 mm x 224 mm Dimensions (W x H x D)

Weight

3.2 kg VHS NTSC standard Format

Maximum recording time

210 min. with ST-210 video cassette SP 630 min. with ST-210 video cassette ΕP

VIDEO/AUDIO

NTSC-type color signal and EIA monochrome signal, 525 lines/60 fields Signal system

Recording/Playback

DA-4 (Double Azimuth) head helical scan system system

Signal-to-noise ratio 42 dB 230 lines Horizontal resolution

Frequency range

Normal audio 100 Hz to 10,000 Hz 20 Hz to 20,000 Hz Hi-Fi audio

RCA connectors (IN x 1, OUT x 1) Input/Output

**TUNER** 

Frequency-synthesized tuner Tuning system

Channel coverage

Channels 2-13 VHF UHF Channels 14-69 113 Channels **CATV** 

Channel 3 or 4 (switchable; preset to Channel 3 when shipped) 75 ohms, RF output

unbalanced

**TIMER** 

Clock reference Quartz

1-month programmable timer/8 programs Program capacity

Approx. 18 hours Memory backup for timer:

**ACCESSORIES** 

RF cable (F-type), Infrared remote control unit, "AAA" battery x 2, Conversion plug Provided accessories

Specifications shown are for SP mode unless specified otherwise.

E. & O.E. Design and specifications subject to change without notice.

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